

Notice of Allowability

Application No.

10/049,583

Examiner

Prabodh M Dharja

Applicant(s)

TANAKA ET AL.

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2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04-06-2005.
2. ☒ The allowed claim(s) is/are 1-10,43,44,47-49,58,64-69 and renumbered as 1-22.
3. ☒ The drawings filed on 13 February 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 06-04-02,03-14,05
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

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1. **Status:** Receipt is acknowledged of papers submitted 04-06-2005 under amendments which, have been placed of record in the file. The Claims 52-55 are cancelled and claims 1-10,43,44,47-49,58,64-69 are pending in this office action.

Response to Amendment

2. Applicant has cancelled rejected claims 52-55 of non-final office action mailed on 01-10-2005 and remaining claims 1-10,43,44,47-49,58,64-69 were allowed; puts this application in condition for allowance.

Allowable Subject Matter

3. Claims 1-10,43,44,47-49,58,64-69 are allowed.
4. The following is an examiner's statement of reasons for allowance:
a potential of a scanning electrode becomes a first potential level V_{gon} when the scanning electrode is selected and becomes substantially a second potential level V_{goff} during a retention period in which the scanning electrode is not selected, a potential of a common electrode that is a connection destination of storage capacitance connected to pixel electrodes of a plurality of pixels belonging to the scanning electrode becomes a first potential level $V_c(+)$ in a case where a polarity of a video signal is positive and a second potential level $V_c(-)$ in a case where the polarity of the video signal is negative, when the scanning electrode is selected, and in a case where a difference between the first potential level $V_c(+)$ of the common electrode and a potential during a subsequent retention period is represented by $\gamma V_c(+)$, and a difference

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between the second potential level $V_c(-)$ of the common electrode and a potential during a subsequent retention period is represented by $\gamma V_c(-)$, γ represented by $\gamma = astV_{cp}/2$ (where $V_{cp} = AV_c(+) - Avc(-)$) is set to be smaller in the portion away from the feeding ends in the screen, compared with the portion close thereto and assuming that a value of γ in the portion close to the feeding end; in the screen is $\gamma(O)$, a value of γ in the portion away from the feeding ends in the screen is $\gamma(E)$, and a value of γ in a portion in a middle there between in terms of a distance is $\gamma(M)$ is smaller than $[\gamma(O) + \gamma(E)]/2$ and V_{cp} takes a negative value and $B = agd + ast (AV_{cc}/AV_{gon})$ (where $AV_{gon} = V_{gon} - V_{goff}$, $AV_{cc} = [AV_c(+) + AV_c(-)]/2$ is set to be larger in the portion away from the feeding ends in the screen, compared with the portion close thereto and a value of B in the portion close to the feeding ends in the screen is $B(O)$, a value of B in the portion away from the feeding ends in the screen is $B(E)$, and a value of B in a portion in a middle there between in terms of a distance is $B(M)$, $B(M)$ is larger than $[B(O) + B(E)]/2$ and AV_{cc} is negative and γ represented by $\gamma = astV_{cp}/2$ (where $V_{cp} = AV_c(+) - Avc(-)$) is set to be smaller in the portion away from the feeding ends in the screen, compared with the portion close thereto, and B represented by $B = agd + ast (AV_{cc}/AV_{gon})$ (where $AV_{gon} = V_{gon} - V_{goff}$, $AV_{cc} = [AV_c(+) + AV_c(-)]/2$ is set to be larger in the portion away from the feeding ends in the screen, compared with the portion close thereto.

The cited references on PTO 892's fail to either individually anticipate as well as render obviousness, individually or in combination underlined above claim.

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5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 571-272-7668. The examiner can normally be reached on M-F 8AM to 5PM.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7881. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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April 25, 2005

A handwritten signature in black ink, appearing to read 'Vijay Shankar', with a long, sweeping horizontal stroke extending to the right.

**VIJAY SHANKAR
PRIMARY EXAMINER**